

# FOLIO

University of Alberta

5 March 1987

## Das, Diener at Centre of Research Prize Night

J.P. Das and Erwin Diener will receive University of Alberta Research Prize Awards on 18 March. Dr. Das will be introduced by Dean Patterson (Education); Dr. Diener will be introduced by Dean Wilson (Medicine).

The award lectures are "Intelligence: A View From Neuropsychology" (Dr. Das) and "Reflections on the Meaning of Scientific Discovery" (Dr. Diener).

The Chancellor, Tevie Miller, will present the award to Dr. Das, and the Chairman of the Board of Governors, John Schlosser, will introduce the presentation to Dr. Diener.

The sixth annual Research Prize Night, which gets under way at 8 p.m. in SUB Theatre, is open to all.

Some of the research that Drs. Das and Diener are conducting is outlined here. (Credit: *Research Report*.)

### Finding the Real IQ

Is a scientist more intelligent than a tennis player? What does an IQ test really measure?

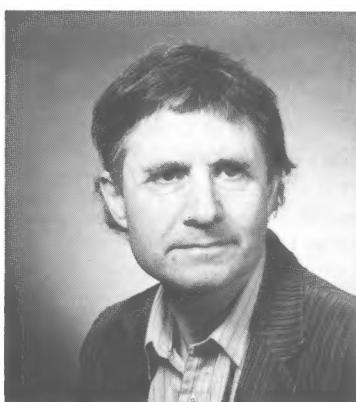
Educational psychologist J.P. Das is developing a whole series of tests that will give a new look to the old intelligence test.

"The IQ test used now doesn't show the full potential of the brain," says Das.

"The brain has three areas," he



J.P. Das



Erwin Diener

points out. "There's the front, which handles decision making, and the stem which handles activity control and concentration. The back deals with coding and analysis, which are the processes that current IQ tests measure."

"We need to develop three broad ranges of tasks to measure the three broad ranges of mental function—and be aware while we're doing this that the brain functions as a whole," he says. "This is a contemporary direction. It's neuropsychology, a new and modern branch of science, and our tests take off from its ideas."

For more than 15 years Das, who is Director of the Developmental

Disabilities Centre, has been developing such tests and trying them out in a research environment. He expects to have them completed in the form of "a standardized battery of tasks" by the end of 1989.

### The Magic Bullet

The body's built-in defence system watches out for invaders and kills "foreigners" when they are discovered. But when a "foreigner" happens to be something good, like a new heart, is there a way to turn off the defence system?

Doctors may not have to wait much longer for the "magic bullet" they've been wanting that will stop particular aspects of the immune system from turning on.

Erwin Diener and his team of immunologists have designed just such a weapon, and it will soon undergo clinical tests at bone marrow transplant centres in France.

"The immunotoxin has worked well in mice," Diener says. "It should work well in humans, but you can never be quite sure. Only a human is like a human."

Diener's magic bullet "certainly has clinical potential," he says. It can be targeted specifically to kill only one kind of cell, or a

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## University Buildings Being Appraised

The following statement has been supplied by J.D. Fitzgerald, Administrative Accountant, Treasury, C of the Comptroller.

As an integral part of the University's risk management and insurance operations, representatives of the firm of Canwest Appraisal Ltd. will be on campus over the course of the next two months in order to complete a full appraisal of the University's

buildings and construction-related assets.

In order to complete this assignment, they will need complete access to all campus buildings. It is anticipated that the appraisal will not involve any significant disruption of day-to-day activities on campus.

While performing this fieldwork, each individual appraiser will be carrying identification cards issued by the University. □

## Library Hits Hard Times

General Faculties Council convened for its regular monthly meeting on Monday, 23 February. Among the several important matters discussed, perhaps none was of greater significance than a report prepared for the GFC Library Committee by Chief Librarian Peter Freeman.

The report, introduced by J.A. Plambeck (Chemistry) and K. Farkas (Business), gave highlights of Library activities in 1986 and identified major issues to be faced in the coming fiscal year. As can be readily understood, adequate financing—rather, the lack of it—was the single common denominator. As Freeman reported, the Library and the GFC Library Committee are working together to "develop proposals to deal with the present acquisition difficulty caused by the ongoing erosion of purchasing power due to inflation and currency valuation."

Graphic examples of such erosion were presented with a clear demonstration that scholars who rely on serial publications as research tools are the hardest hit. A journal with a subscription rate of 30 U.K. pounds in January 1985 cost \$44.78. In January 1987, the Library had to pay \$61.63. Thus, even if the U.K. price remained constant, the increase in cost has been 38.5 percent over two years. Similar increases have been noted too for other major European currencies. For example, a journal costing 500 French francs has jumped by 59 percent; the cost of serial publications from West Germany has leaped a staggering

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particular sub-group of cells, and can prevent the immune system from rejecting a newly transplanted organ, or a skin graft from another donor. It can also be used to attack a tumor; or in diseases where the immune system has turned against "self" and is destroying the body it should be protecting.

The bullet has three parts. At the front is a homing device or "address-seeking" end, designed to search out the cells to be destroyed. At the back is an antibiotic end that will destroy the cells the homing device is addressed to. Linking the two is an acid-sensitive molecule—a spacer.

The bullet will home in on the cells it is "addressed" to, and penetrate the cell wall. Once within the acidic cell environment, the spacer dissolves, the antibiotic becomes active, and the cell is destroyed. (The bullet only destroys the cells it is targeted to. If it finds none, it is harmless.)

Dr. Diener has an international reputation as an immunologist. He is a Fellow of the Royal Society of Canada—an award made in recognition of his many years of important and innovative work on immunity mechanisms. □

## Hunka, Kaplan Attain University Professor Status

*The title of University Professor is granted to individuals who have achieved outstanding distinction in scholarly research, teaching and service to the community. University Professors are members of staff whose scholarly work merits, or has merited, national or international attention; whose teaching ability is widely known and respected by colleagues and students alike as exceptional.*

*The appointment is without term, for full-time service to the University.*

Recently, Steve Hunka, Professor of Educational Psychology and Coordinator of Educational Research Services, and J. Gordin Kaplan, Professor of Biochemistry and Vice-President (Research), were appointed University Professors.

### Steve Hunka

"I'm an example of upward mobility through education," says Steve Hunka. "My father was a railroader, and my mother took the simple position, 'Do you want to work like your father or do you want to get an education?' So . . . I went to university."

In the years since then, Dr.

Hunka's research into the use of computers in support of teaching and research (in particular, into the numerical techniques that are used in educational measurement and research design) has won him a number of awards, as well as substantial grants. And his work in initiating at the University of Alberta the first major computer-assisted instruction project in Canada (1968) rates a mention in *The Canadian Encyclopedia*.

When the young Hunka arrived on campus in 1951 as a student in education, he was already interested in electronics (at age 16 he had an amateur radio licence) and science, and in "learning things that were more than just run of the mill."

"It was long before a computing centre was even dreamed of," says the older Hunka today, leaning back in his chair in his book-lined office in Education North, cigarette in hand, and fondly recalling those far-off times.

"Computing and electronics were in one domain then," he

remembers. "Don Scott, Chairman of Physics, had a small desk-size computer in the bottom of the Arts Building, and he was most cooperative in letting a non-physics student use his machine. That was how I got into computing."

Later, working towards a PhD at Illinois "because there were good people there in education and psychology," Hunka won a Johnson (Wax) Foundation fellowship connected with computing. His adviser was heavily involved in numerical computing, and his own interest in the development of numerical techniques was then confirmed.

Back at the U of A in 1961, as Assistant Professor in Educational Psychology, "it was a good time. There was lots of growth, lots of people doing theses that required statistical work—a student would spend a month on calculations that a computer could do in a matter of minutes. The development and scoring of tests was also a natural for the computer, and the growth into tests and measurement

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*Library, continued from page one.*

72 percent. And that is not all. According to the report, "North American libraries also appear to be facing a discriminatory regime when compared to European or Third World prices." A 7 percent inflation increase in certain European journals will result in a 35-40 percent increase in the U.S. price.

Soon, Freeman said, choices will have to be made between cutting monograph or serial acquisitions, or both. If fewer monographs are bought each year, that will result in the "eventual elimination of monograph purchases in most if not all disciplines." Reduction of serial purchases will ultimately bring about the elimination of periodicals and standing orders—hardly a bright prospect for a Library ranked among the top third of research collections in North America.

Space is also a problem. According to Freeman, the Library is running out of room and decisions will have to be taken shortly about storage of materials in places other than Library buildings. "We cannot wait for the promised paperless society. Even if it were to appear tomorrow, it would not solve a research library's archival role and the need of many to have access to original material."

The GFC Library Committee

report caused wide discussion. Dean Smith (Business) pointed to the Library as a "community resource" and much was made of the c. 12,000 borrowings each year by government departments. Dean White (Arts) had the novel suggestion that the Library become an autonomous entity funded separately from universities in Alberta. Duncan Fishwick (Classics) referred to the Library as his "only research laboratory" and suggested the establishment of user fees. "Books," he noted, "last longer than buildings."

Graduate student and statutory member P. Wood addressed a different problem. He said that students are now using the public library system because it is too difficult to find material in the University's stacks. He wondered if a "redistribution" of Library staff might benefit students.

Not all was gloom, even if the Library still waits for 1985-86 gifts-in-kind to be matched by the provincial government. The SF supplied a grant making possible the addition to the fine printing collection of the Home Museum Collection of Artists' Books. Also, the provincial matching program gave our University \$1.2 million worth of microform material and equipment in 1986. □

*Continued from page two*  
occurred then too."

By 1966 Hunka was Coordinator of the Division of Educational Research Services, and soon moved into using computers for production.

"It amuses him today to remember how simple it was then to put a request to the Board of Governors and have it approved. "Max Wyman (then a Vice-President) and Don Scott and I made a 15-minute presentation on what we needed, and why, and a few days later it was approved.

"We used computer-assisted instruction (CAI) first in education, where we were interested in developing courses not only for our own Faculty but also for children to use. Then we went into medicine—that grew out of curriculum changes. We demonstrated that we could simulate patients for them, and we devised methods of evaluating medical students."

It is a source of considerable satisfaction to Hunka to have introduced computers not only into his own Faculty for numerical and statistical work, but into a number of other Faculties for instructional work too. Modestly, he says, "We were one of the first universities in Canada to become involved in instructional computing."

(According to *The Canadian Encyclopedia*, the project he initiated was the first in Canada.) In recognition of this inter-Faculty involvement, he has held academic appointments in the Department of

Computing Science and in the Department of Medicine.

Appointed full professor in 1968, Hunka's work in computer applications won him the Canadian Education's Research Award in 1976 and the Jubilee Medal in 1978, and over the years he has received grants totalling \$686,050 from a variety of agencies, including SSHRC, the National Research Council and the Canada Council.

As a McCalla Professor (1985-86) he has been hard at work developing an instructional authoring system "with a lot of flexibility." His aim has been to make "creating a course a more natural kind of activity for instructors, so that they can concentrate on instruction rather than on computer procedure." An experimental version is ready now; a second version is "just coming up."

"I make no distinction between work and play," says Hunka, who admits to going to bed in the small hours and getting up at 6:30 a.m. Since 1961, he has sat on more than 50 committees, boards and councils whose concerns range from his own education interests to medical curriculum, to patents, to private business and research. He has also published more than 60 books, journal articles and other writings, and has made more than 50 presentations at conferences. (He has also made most of the furniture in his living room. "Take a piece of wood that's raw and turn it into a piece of furniture—that's a pleasure. It's creative. People need

to do things like that for the good of their soul.")

Speculating on the future of research, Hunka philosophizes that "when funds are tight, the pressure is on to produce. So there is much less risk taking today; graduate students are less inclined to set out on projects that are interesting—but may lead nowhere.

"Fifteen years ago we each used to have side projects. We called them our 'sandboxes'—something you were investigating, experimenting, playing with to see what would come out of it. Sometimes it leads nowhere. But sometimes it does lead somewhere—maybe down the road. That is the payoff for scientific risk takers.

"There is a tendency today to underestimate some areas of work as 'irrelevant', 'not much use.' But that isn't so. Many of the numerical techniques that we started using on computers were developed 50 to 100 years ago, before computers existed. Were those people regarded as wasting their time?

"You never know for sure where advances are going to be made. Society really has to look on that sort of work as risk taking in the same way as drilling a hole in the ground for oil."

As University Professor, Hunka doesn't see his life changing very much. "I am going to be doing what I should be doing—working within my discipline as well as I can." □

*Next week: Gordin Kaplan.*

## For Students Who Need Help . . .

"Students come to Student Services because they have either an academic problem (or vocational or career concerns) or a personal problem. Sometimes the two are related," Allen Vander Well, Director of Student Counselling Services, told his audience at a CITL seminar, 24 February, on the topic "Identifying and Assisting Students in Crisis".

To help professors help students in crisis, Dr. Vander Well had these nuggets of advice:

- When referring students to Student Services, refer them to a name rather than just to the agency. People prefer to talk to somebody rather than just anybody. Instructors who don't know any counsellors should call Dr. Vander Well for names.

- Don't nag! Having suggested that a student see Student Services, leave them alone. Whether they come or not is up to them.

- If a student is defensive when a visit to Student Services is suggested ("Why? Do you think I am crazy?"), shift to the opposite position. Say, "I'm probably wrong then." And see what happens.

- Counselling records are *absolutely confidential*. They are kept in locked files, can only be released on the student's signature, and are destroyed after a year. A visit to Student Services is a matter known only to the student and Student Services.

- Most students are in and out of a counsellor's office within an hour. Most of them have been trying to solve the problem but just haven't found a solution that works.

- A student problem may also cause an instructor problem. Sometimes a change in the instructor's behavior can work wonders.

- The University funds the service. There is no charge to students—except on a cost-recovery basis for special tests such as a vocational interest test. □

## Douglas Murray Sheppard, 1939 - 1987

Doug Sheppard, a Professor in the Department of Physics, died on 3 February 1987.

He first joined the University in 1966 as a research scientist in the Nuclear Research Centre and was appointed to the full-time teaching staff as Assistant Professor in 1970. In 1972, he was promoted to Associate Professor.

In 1976, he received a Fellowship from the Alexander von Humboldt Stiftung which he held at the Universität Freiburg, where he carried out research on few body nuclear reactions using the facilities of the Swiss Institute of Nuclear Research, in Villigen, Switzerland. The work was continued with his Alberta colleagues at TRIUMF on the University of British Columbia campus.

Dr. Sheppard was promoted to Professor in 1979. He served as Acting Director of the Nuclear

Research Centre for one year (1981-82).

From 1983 to 1984, he collaborated with researchers at the Laboratoire Nationale Saturne at Saclay, France. His recent interests were in experiments on deuteron polarimetry to be carried out at MIT and on research at the Saskatoon Accelerator Laboratory. He authored and co-authored about 50 publications in scientific journals.

Doug Sheppard was devoted to teaching and was always concerned with students and their problems. A scholarship fund for Physics students has been set up at his request and donations may be sent to the University of Alberta/Douglas M. Sheppard Scholarship Fund, c/o Department of Physics, University of Alberta, Edmonton, Alberta T6G 2J1.

He is survived by his beloved wife, Wilhelmina, daughter,

Alexandra, and son, George; five sisters and two brothers.

Doug Sheppard will be very much missed—his wit, humor and dedication will remain as an inspiration to us all. □

## 'Recurring Dilemmas of Canadian History' Coming Under Discussion

Abraham Rotstein, one of Canada's most prominent economic historians and nationalists, will deliver a public lecture next week.

"Recurring Dilemmas of Canadian History" is the topic of the 12 March (8 p.m., HCL-1 Humanities Centre) lecture.

The visitor is the first guest of the "In the First Person Series" sponsored by the Canadian Studies

Program of the Faculty of Arts. While on campus, Dr. Rotstein will also conduct a seminar for Canadian Studies students on the central theme of the series—the theory and method of interdisciplinary scholarship.

Further information on Dr. Rotstein's visit can be obtained by contacting Gurston Dacks, Chair of Canadian Studies, at 432-5086. □

# Ten Men and Women Named Honorary Degree Recipients

At the 27 February meeting of the Senate, it was announced that the University will award honorary degrees to Philip Tobias, and Ivan Head (1 June), A. Ernest Pallister and John Poole (2 June), Anne Burrows and Shizu Kurimoto (3 June), Margaret Andrekson and Horst Schmid (4 June), and Jean Chrétien and Peter Savaryn (8 June).

Brief biographies of the honorary degree recipients, who, incidentally, come by such standing through the deliberations of Senate's Honorary Degrees Committee, follow.

## Margaret Andrekson

An alumna of the University of Alberta, Margaret Andrekson served on its Board of Governors and Senate from 1974 to 1980. She continued her affiliation with the University following her official terms, particularly as Chair of the Special Events Division for the XI Commonwealth Games, as a Board member with responsibility for all cultural programs surrounding Universiade '83, as a member of the Board of Directors of the University of Alberta Hospital, and as a founding member and first President of the Friends of the University of Alberta Museum.

She has also been involved in the community life of Edmonton for the past 30 years. Mrs. Andrekson served as President of the Junior League of Edmonton and as Vice-President of both the Edmonton Symphony Society and the Alberta Ballet Company. The board's of the Edmonton Art Gallery Women's Committee, the United Way and the Winspear

Foundation have benefited from Mrs. Andrekson's presence.

## Anne Burrows

A member of the Music Faculty at Alberta College and a private music teacher in Edmonton, Anne Burrows has been involved in teaching music most of her life. She began her teaching career in England (Paddington and Maida Vale High Schools for Girls, London, and the Downe House School for Girls, Berks). Since 1952, Ms. Burrows has been giving private tutoring to Edmonton pupils.

Her project, "Teaching Music Through Braille", has brought together her expertise in music, her insight in teaching and her understanding of the conditions confronting the blind. The publication associated with the project will form the basis of a course for teaching music to blind students.

Ms. Burrows is active on various committees associated with the Canadian Institute for the Blind (CNIB), including the advisory committee on music, Board of Management member for Alberta and NWT division, and as vice-chair of the Northern Alberta District Advisory Board.

Ms. Burrows was a member of the University Senate from 1979 to 1982, and has been a music consultant to Studio Theatre on campus. She is also Past President of the Edmonton Chamber Music Society, Chair of the Angela Cheng Musical Foundation and founder and President (1972) of the Canadian Music Competitions, Alberta division.

## Jean Chrétien

A Member of Parliament for 23 years, Jean Chrétien held every major portfolio in the Canadian government, including the Ministries of National Revenue; Indian Affairs and Northern Development; Industry, Trade and Commerce; Finance; and Justice. He also served as Deputy Prime Minister and Secretary of State for External Affairs. During his years as a parliamentarian, Mr. Chrétien was a key player in keeping Canada united: he played a major role in defeating the referendum in Quebec on Sovereignty Association in 1980 and was instrumental in patriating the Canadian Constitution from Britain in 1982 and the entrenchment within it of the Canadian Charter of Rights and Freedoms.

In February 1986, Mr. Chrétien resigned his seat in the House of Commons and joined the Ottawa legal firm of Lang, Mitchener, Craston, Farquharson.

He received his law degree from Laval University and in 1958 joined the legal firm of Chrétien, Landry, Deschenes, Trudel and Normand in his home town of Shawinigan.

Mr. Chrétien has been awarded honorary degrees by Sir Wilfrid Laurier University, Laurentian University and the University of Western Ontario.

## Ivan Head

Ivan Head is President of the International Development Research Centre and former special assistant to Prime Minister Pierre Trudeau.

A graduate and former Professor of Law at the University, Mr. Head joined the federal department of External Affairs in 1960 and was a foreign service officer in Ottawa, Kuala Lumpur, Rangoon, and Bangkok before serving as Associate Counsel (Constitution) to the Minister of Justice. He was Legislative Assistant to the Prime Minister for two years until, in 1970, he was named Special Assistant to the Prime Minister. In this position, Mr. Head held special responsibility for foreign policy and the conduct of international relations.

During his years with the federal government, Mr. Head was the senior adviser to the Prime Minister on his official visits to the U.S., Britain, Japan, Iran, the Soviet Union, China and other nations. He also acted as the special emissary of the Prime Minister in meetings with Australian, Nigerian, Indian, and Japanese leaders.

In 1978, Mr. Head accepted the position as President of the International Development Research Centre, an aid agency which has earned the respect of developing countries and agencies in other donor countries.

## Shizu Kurimoto

Shizu Kurimoto has been active in the field of education, along with her late husband, Yuichi Kurimoto, since 1935. She was the principal of one of the schools they founded. When time permitted, the Kurimotos travelled extensively for the express purpose of visiting schools and acquiring information which they could subsequently use in their quest to establish high quality schools in their homeland.

The Emperor of Japan has recognized Mrs. Kurimoto's contribution to education by bestowing several awards upon her.

She has presided over the League of Women Voters in Japan, both at the local and national level, and was a Counsellor for people before the Family Court of Nagoya for several years. Mrs. Kurimoto was a member of the Board of Trustees of the Nagoya Commercial University and was instrumental in establishing a women's college.

She remains a strong supporter of the University of Alberta in general and the Devonian Botanic Garden in particular. It is here that the Kurimoto Japanese Garden is being developed thanks to major donations by the Kurimoto family.

## A. Ernest Pallister

A. Ernest Pallister is a native Edmontonian and alumnus of our University. He was one of the early pioneers in the Alberta geophysical industry and developed many new techniques and concepts. To recognize his contributions to the oil industry, Dr. Pallister was named "Oilman of the Year" in 1970. He established his own consulting firm which continues to provide expertise to various areas of the oil industry in Alberta and across Canada. Dr. Pallister is familiar with the frontier exploration in Canada's north and he was involved with the Centre for Cold Ocean Resources Engineering (C-CORE) in Newfoundland. He also helped found the Centre for Frontier Engineering Research (C-FER) at our University. He served as Chair of the Board of C-CORE and is currently Chair of C-FER.

Dr. Pallister was instrumental in the establishment of the Veterinary Infectious Disease Organization (VIDO) at the University of

# Q and A

## One way of getting better known

*Q and A*, a new publication from the Office of Public Affairs, is aimed at developing media coverage of the University's work in humanities and the social sciences.

Columnists, editors and freelance writers across Canada will receive the four-page quarterly, whose inaugural issue comes out later this month.

"It's our companion to *Research Report*," explains Al Squibb, Director of Public Affairs. "But where *Research Report* concentrates on the natural sciences, *Q and A* will concentrate on the social sciences."

The March issue profiles six University scholars, on subjects including sexual inequality in sport, Chernobyl's industrial fallout and a Chinese philosopher's decision to move to Edmonton.

Saskatchewan. He sits as an associate of the Devonian Group of Charitable Foundations, has served as a Director and Vice-Chair of the Banff School of Advanced Management and is a director of a number of organizations, including the Arctic Institute of North America. Most recently, Dr. Pallister was a consultant to the Newfoundland commission investigating the Ocean Ranger disaster.

#### John Poole

John Poole is an Edmonton businessman and engineer.

After earning a degree in civil engineering at this University, he went on to establish, along with his brother, Poole Construction Ltd. (now PCL Construction Ltd.). During the time they headed the company (1948 to 1977), it became one of the foremost general contractors in Canada, erecting major buildings and entire townsites, airports, highways and industrial plants.

A founder of Oxford Development Group, a leading commercial developer in Canada, Mr. Poole is a director of the Alberta Venture Fund, the Toronto Dominion Bank, Shaw Cable Systems Ltd., and Suncor Ltd. He is an associate of the Devonian Group of Charitable Foundations, a member of both the Engineering Institute of Canada and APEGGA, and a trustee of the Pearson College of the Pacific. He is a past Governor of the Glenbow Alberta Institute and the Banff Centre, and was a council member of the Duke of Edinburgh's Commonwealth Study Conference in 1980.

#### Peter Savaryn

Peter Savaryn, a native of Ukraine, received his law degree from the University and was admitted to the bar in 1957. He opened his own law office in 1959 and was appointed Queen's Counsel in 1974. Preceding his appointment as Chancellor, Mr. Savaryn was a member of the University's Board of Governors and Senate from 1972 to 1978 and Chancellor of the University from 1982 to 1986.

He has been named an honorary life member of the local Ukrainian Professional and Businessmen's Club and holds memberships in numerous organizations, including the Canadian Foundation of Ukrainian Studies, the Ukrainian Association Plast Edmonton and the Ukrainian Canadian Professional and Business Federation.

Mr. Savaryn has also been active in a variety of community, provincial and national organizations, for example, the Fort Edmonton Historical Foundation, Alberta Cultural Heritage Council,

Canada West Foundation and the Canadian Wildlife Federation. A former president of the Alberta Progressive Conservative (PC) Association, he has been an official delegate to national PC leadership conventions since 1955.

#### Horst Schmid

A native of Bavaria, Horst Schmid was first elected to the Alberta legislature in 1971 and was appointed Minister of Culture, Youth and Recreation. During his term in this office, Mr. Schmid initiated and/or guided the development of numerous programs such as the Alberta Games, *Heritage Magazine*, the Performing Arts on Tour Program, the Mobile Planetarium and the Cultural Heritage Council.

In 1979 and until 1986, Mr. Schmid was the Minister responsible for International Trade to find and develop markets for Alberta products. In 1985, close to \$900 million in export sales assisted by his department were reported to Alberta firms.

Mr. Schmid has been recognized for his work with cultural associations and received the "Special Award" from the National Music Council for the Encouragement of Music in Alberta and Canada, the Distinguished Service Award from the Alberta Motion Picture Industries Association. He was also named "Man of the Year" by the Edmonton Commonwealth Games Foundation.

#### Phillip Tobias

Phillip Tobias, a noted scholar on human evolution, is head of the Department of Anatomy (and a former Dean of Medicine) at the University of Witwatersrand in Johannesburg, South Africa. He has played a crucial role in the detailed description and comprehensive appraisal of many of the fossils found in Africa and has organized extensive multidisciplinary studies of the San (Bushman) people of the Kalahari.

Throughout his adult life Dr. Tobias has been an eloquent spokesman for equal rights. He successfully fought, with others, through the Supreme Court of South Africa for the decision that forced the holding of an independent inquiry concerning the doctors involved in the tragic death, while in police custody, of the black student leader, Steve Biko.

Dr. Tobias has been an invited speaker at universities and conferences throughout the world.

He was recently elected an Honorary Member of the American Academy of Arts and Sciences.

Note. Coverage of other matters discussed by Senate will appear next week. □

## 'Graduate Research Symposium 87'

The Graduate Research Symposium is a forum in which graduate students of the University of Alberta are able to present original research findings, completed or in progress.

The symposium, slated for 11 March (9 a.m. to 4 p.m. in Lister Hall), brings students, faculty and the community into close contact with the progressive and diverse research activities of the graduate student population.

Another point in the symposium's favor is that it

provides informal opportunities for the exchange of cultural backgrounds and experiences.

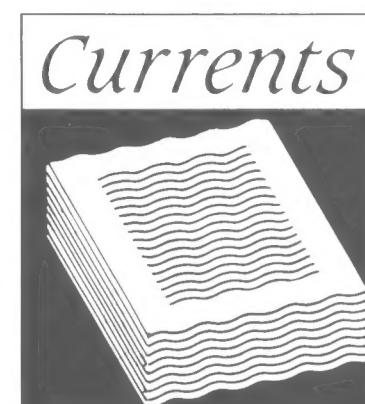
There will be three concurrent sessions; topics presented through paper or poster sessions will pertain to 1) medical, health and biological sciences, 2) humanities, fine arts and social sciences, and 3) engineering, physical, environmental and earth sciences.

All abstracts presented will be published by the Graduate Students' Association. □



#### Onward and Upward

Vice-President (Administration) Warrack opened the 25 February wheelchair rally in CAB. The event, held in conjunction with Rick Hansen's 6 March appearance at the Pavilion, included an obstacle course that caused Dr. Warrack and many other game volunteers no end of concern.



assessment by the Unit Review Committee. In preparation for this second phase, PACC invites written comment prior to 20 March 1987. Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee.

Submissions should be sent to: Mrs. Shirley Moore, Coordinator, PACC Office, W4-13 Chemistry Building, Attention: The Department of Civil Engineering Unit Review Committee.

#### School of Native Studies Course and Program Changes

In accordance with GFC regulations, the University Secretariat maintains a list of persons interested in receiving notification of course and program changes for information or for possible challenge. Interested staff and students who wish to receive notice of such changes by the School of Native Studies should contact the University Secretariat, 2-5 University Hall, (432-4965 or 432-4733), to have their names placed on the list.

## Talks

### Comparative Literature and East Asian Languages and Literatures

5 March, 4:30 p.m. Wai-Lim Yip, University of California at San Diego, "The Taoist Theory of Knowledge." 207-A Law Centre.

6 March, 3:30 p.m. Melena Dolezalová-Velingerová, University of Toronto, "The Seventeenth Century Chinese Theory of Narrative: Its Reconstruction and Issues." 207-A Law Centre.

6 March, 4:30 p.m. Karl S.Y. Kao, "Derivational Poetics: Adaptations in Chinese Narrative Tradition." 207-A Law Centre.

### Art and Design

5 March, 5 p.m. Margaret May, Alberta College of Art, will lecture on her work. 2-20 Fine Arts Building.

6 March, 1 to 5 p.m. Open workshop on printmaking. 2-40 Fine Arts Building.

### Native Students Club

6 March, 9 a.m. to 3 p.m. Forum on "Preview: First Ministers' Conference '87." Speakers to include: Harry Allen, Vice-Chief, North, Assembly of First Nations; John Amagoalik, Chairman, Inuit Committee on National Issues; Louis "Smokey" Bruyere, President, Native Council of Canada; and a representative of the Prairie Treaty Nations Alliance. National Native leaders will talk about the constitutional positions they will present at the First Ministers' Conference. SUB Theatre.

### History, Political Science and Sociology

6 March, noon. Ulf Olsson, Umea University, Sweden, "Standard of Living: Concept and Methodology." 5-15 Tory Building.

### Boreal Institute for Northern Studies

6 March, noon. Rogier Gruijts, "Chernobyl and its Effects on Swedish Wildlife." M-137 Biological Sciences Centre.

### Sociology

6 March, noon. Ulf Olsson, Umea University, Sweden, "Standard of Living: Concept and Methodology." Co-sponsored by History and Political Science. 5-15 Tory Building.

11 March, noon. Gerd Schenck, Vienna Institute for Advanced Studies, "Labour Market Structure and Policy in Austria." 5-15 Tory Building.

18 March, noon. Ron Meleshko, Alberta Cancer Board, "The Social Etiology of Cancer in Alberta." 5-15 Tory Building.

### East Asian Languages and Literatures

6 March, 2:30 to 5 p.m. Students' Speech Contest in Japanese. Sponsored by the Consulate-General of Japan in Edmonton and the Japan Foundation, Tokyo. Grand Prize contributed by Canadian Pacific Airlines. 3-05 Business Building.

12 March, 3 p.m. Roy Starrs, Department of Asian Studies, University of British Columbia, "Mishima Yukio as a Philosophic Novelist." L-4 Humanities Centre.

13 March, 3 p.m. Yuzo Ota, Department of History, McGill University, "Use of the English Language in Modern Japan: With Special Reference to the Question

of Cultural Identity." L-4 Humanities Centre.

### Comparative Literature

6 March, 3 p.m. Steven Tötösy de Zepetnek, "Towards a History of German Canadian Literature." 101 Law Centre.

13 March, 3 p.m. Denise Roy, Catalyst Theatre, "Catalyst Theatre: Theatre for Social Action." 101 Law Centre.

### Anatomy and Cell Biology

6 March, 3 p.m. Jonathan Raper, Research Group Leader, Max-Planck Institut, Tuebingen, West Germany, "Cell Recognition During Neuronal Growth Cone Navigation." 6-28 Medical Sciences Building.

10 March, 4 p.m. Alan H.D. Watson, Department of Zoology, University of Cambridge, England, "Ultrastructural Immunocytochemical and Pharmacological Studies of Spiking Local Interneurons in the Locust." 6-28 Medical Sciences Building

### Finance and Management Science

6 March, 3 p.m. Eugene Kaciak, "Combining Individual Cardinal Rankings Into a Consensus Cardinal Ranking." 4-16 Business Building.

### Zoology

6 March, 3:30 p.m. E. Bosler, Division of Epidemiology, State University of New York, Stony Brook, N.Y., "Ecology and Epidemiology of Lyme Disease." M-149 Biological Sciences Centre.

13 March, 3:30 p.m. R. Rockwell, Department of Biology, City College of New York, New York, "Clutch Size and Reproductive Fitness: Why Don't Snow Geese Lay More Eggs?" M-149 Biological Sciences Centre.

### Faculté Saint-Jean

6 mars, 7:30 p.m. Conférence de Mesdames Simone LeBlanc-Rainville, PhD, et Catalina Ferrer, MA, "Le développement de l'être: est-ce possible en éducation." Faculté Saint-Jean.

### Lutheran Campus Ministry

7 March, 9 a.m. Gail Ramshaw-Schmidt, scholar of liturgical language, New York, "Images of God in the Texts of Lent." This day-long workshop will be held at St. Stephen's College. Registration fee: \$20. 439-7311.

7 March, 6:15 p.m. Dr. Ramshaw-Schmidt, "Tragedy, Comedy and Liturgy." The occasion is the Lutheran Campus Ministry's 30th Anniversary Banquet. Call 432-4513 for reservations. Lister Hall.

### Physical Education and Sport Studies

9 March, 1 p.m. Gerd von der Lippe, Telemark Distriktschogskole, Norway, "The Committee for Women in the Norwegian Confederation of Sports: Then and Now." E-436 Van Vliet Centre.

10 March, 2 p.m. Gertrud Pfister, Freie Universität, Berlin, "Women in Sport in Germany: Historical and Present Perspectives." E-436 Van Vliet Centre.

### Slavic and East European Studies

9 March, 3 p.m. Allan Reid, "Lotman's Definitions of Literature." 776 General Services Building.

### Nursing

9 March, 4 p.m. Ada Sue Hinshaw, Director of Research, College of Nursing, University of Arizona, Tucson, and Director of Nursing Research, University Medical Center, Department of Nursing, Tucson, "Nursing Research in Clinical Settings: A Valuable Merger." 2F1.04 Mackenzie Health Sciences Centre.

### CITL

10 March, 3 p.m. Mary Mahoney-Robson, "Introduction to Scholarly Publishing." TB-W2 Tory Breezeway.

11 March, 3:30 p.m. Jennie Wilting, Mental Health Consultant, Grant MacEwan Community College, "Burnout Prevention in the Work Place." TB-W2 Tory Breezeway.

12 March, 10 a.m. Marg Gardiner, Lynn Hewitt and Tom Powrie, "Obtaining Grants: Negotiating the Hurdles—Avoiding the Pitfalls." TB-W2 Tory Breezeway.

12 March, 12:30 p.m. Jennifer Jay, Elizabeth Richards and Linda Woodbridge, "Time Management Strategies for Women." TB-W2 Tory Breezeway.

17 March, 10 a.m. Peter Lown, "Copyright." 2-33 Humanities Centre.

17 March, 4 p.m. David A. Cook, "Approaches to Formal Lectures for Large Classes." 1-09 Business Building.

18 March, noon. Michael Stiles, "Position Papers to Promote Student Interpretation of Factual Information." TB-W2 Tory Breezeway.

19 March, 10 a.m. Jeanette Boman, "Facilitating Student Involvement in Classroom Settings." TB-W2 Tory Breezeway.

### Plant Science

10 March, 4 p.m. J. Rutherford, "Involvement of a Secondary Messenger in Auxin Transport." 811 General Services Building.

12 March, 4 p.m. G.W. Cussans, Department of Agricultural Sciences, University of Bristol, Long Ashton, England, "Weed Density Thresholds—How Good Are They?" 811 General Services Building.

17 March, 1 p.m. N.C. Schenck, Professor, Department of Plant Pathology, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, "Vesicular-Arbuscular Mycorrhizae." 1-06 Agriculture-Forestry Centre.

17 March, 4 p.m. Z. Hongli, "Spring Wheat Production and Breeding Methods in Northeast China." 811 General Services Building.

### Forest Science

11 March, noon. James Kimondo, MSc candidate, "Individual Tree Volume and Stand Yield Functions for *Eucalyptus grandis*/*saligna* Plantations in Kenya Highlands." 4-1 Mechanical Engineering Building.

18 March, noon. Charles Johnson, Head, Reforestation Division, British Columbia Ministry of Forests and Lands, "Silvicultural Developments in British Columbia." 4-1 Mechanical Engineering Building.

### Physics

11 March, 3:30 p.m. L. Wilets, University of Washington, "Dynamics of the Soliton Bag Model." 631 Physics Building.

### Chemistry

11 March, 4 p.m. Jan Thurin, Wistar Institute, Philadelphia, "Gangliosides in

Melanoma Progression and Therapy." E3-25 Chemistry Building.

### Limnology and Fisheries Discussion Group

12 March, 12:30 p.m. Jackie Shaw, "Porewater Phosphorus: Trivial or Important in Terms of Nutrient Cycling in Lakes?" P-319N Biological Sciences Centre.

19 March, 12:30 p.m. Joe Culp, Department of Biology, University of Calgary, "Diel Feeding of Aloic Benthic Fish, *Rhinichthys cataractae*." P-319N Biological Sciences Centre.

### English

12 March, 12:30 p.m. Sharon Thesen will read from her works. L-3 Humanities Centre.

### East Asia Interest Club

12 March, 3:30 p.m. B. Evans, Vice-President (International Affairs), "China in June, 1964." TB-W2 Tory Breezeway.

### Science, Technology and Society Program

12 March, 3:30 p.m. C.S. Holling, Institute of Animal Resource Ecology, University of British Columbia, "Sources of Renewal in Evolving Nature, Technologies and Societies." 1-06 Business Building.

### J.G. O'Donoghue Memorial Lecture

12 March, 4 p.m. A.J.F. Webster, H Department of Animal Husbandry, University of Bristol, "Meat and Right—Farming as if the Animal Mattered." L-1 Humanities Centre.

### Religious Studies, English, Comparative Literature and St. Joseph's College

A one-day conference on "The Bible and Literary Criticism."

13 March, 11 a.m. David Gunn, Columbia University Theological Seminary, Decatur, Georgia, "Moses as Mother (Numbers 11-12): A Reader's Reflections on Rulers, Relativities, and Relationships in the Hebrew Bible." 5-20 Humanities Centre.

2 p.m. Lyle Eslinger, University of Calgary, "Crucifying Impure Thoughts in the Gospel of John." Faculty Lounge, St. Joseph's College.

3 p.m. Michael Deroche, University of Calgary, "Abraham's Journey to Blessing (Genesis 12-13)." Faculty Lounge, St. Joseph's College.

5 p.m. David Jobling, St. Andrews College, Saskatoon, "Criticism and Freedom: The Deconstruction of the Biblical Text in the Context of Feminist and Marxist hermeneutics." St. Stephen's College.

6 p.m. Christopher Foley, St. Thomas More's College, Saskatoon, "Two Ways of Reading Psalm 137." St. Stephen's College.

### Centre for Advanced Study in Theoretical Psychology

16, 17 and 18 March, 2 p.m. Anne Anastasi, Fordham University, will conduct three seminars on psychometric theory. CW-410 Biological Sciences Centre.

## Linguistics and Slavic and East European Studies

16 March, 2 p.m. Bernard Comrie, University of Southern California, "Explanations for Language Universals." (Note: Should be accessible to beginning students and non-linguists with linguistic interests.) 4-70 Assiniboia Hall.  
17 March, 2 p.m. Professor Comrie, "Unifying English-Russian Syntactic Contrasts." (Note: Argues that a number of apparently disparate syntactic contrasts between English and Russian can be viewed in terms of a greater fit between semantics and surface form in Russian than in English.) 349 CAB.  
18 March, 3 p.m. Professor Comrie, "Switch Reference in Harway: Grammar or Discourse?" (Note: Suggested audience - faculty and more advanced students.) 235 CAB.

## Physics

16 March, 4 p.m. Arthur S. Wightman, Princeton University, "Progress and Paradox in Twentieth Century Physics." 126 Physics Building.  
17 March, 3:30 p.m. Professor Wightman, "The Connection Between Classical and Quantum Mechanics for a Class of Ergodic Systems." V112 Physics Building.  
18 March, 3:30 p.m. Professor Wightman, "Non-Renormalizable Quantum Field Theory." V112 Physics Building.  
20 March, 2 p.m. Professor Wightman, "Some Lessons on Renormalization Theory." V121 Physics Building.

## Germanic Languages, Comparative Literature at Goethe Institut, Vancouver

16 March, 7 p.m. Gisbert Ter-Nedden, Professor für Neuere Deutsche Literaturwissenschaft an der Fernuniversität, Gesamthochschule, Hagen, West Germany, "Macht auf dem Theater. Zu Schillers Begründung des modernen politischen Dramas." TB-W2 Tory Breezeway.  
17 March, 4:30 p.m. Dr. Ter-Nedden, "Nachgeschichte des republikanischen Trauerspiels. Vorschläge zu einer gattungsgeschichtlichen Interpretation des 'Danton' Büchners." TB-W2 Tory Breezeway.  
18 March, 4 p.m. Dr. Ter-Nedden, "Miverständliche Aufklärung. Versuch über die Interpretationsgeschichte der Dramen Lessings." TB-W2 Tory Breezeway.  
19 March, 4 p.m. Dr. Ter-Nedden, "Poesie zwischen Rede und Schrift. Zur Mediengeschichte der Literatur im 18. Jahrhundert." TB-W2 Tory Breezeway.

## Civil Engineering

17 March, 4 p.m. Michael Quick, Department of Civil Engineering, University of British Columbia, "Snowmelt Hydrology and Applications to Runoff Forecasting." 317 Civil-Electrical Engineering Building.

## Contemporary China Seminar

18 March, 7 p.m. Jan Walls, lecture and performance, "Wit and Humour in the Popular Performing Arts in China." Co-sponsored by the Edmonton Chinatown Multicultural Centre. L-1 Humanities Centre.

## Home Economics

18 March, 7 p.m. Gail Bachynski, "A Designer's Look at the Collection." Registration fee: \$20. 432-2528. B16 Home Economics Building.

## Soil Science

19 March, 12:30 p.m. W.W. Pettapiece, Alberta Institute of Pedology, Land Resource Research Institute, Agriculture Canada, "Land Use Implications of Soil Conservation." 236 Earth Sciences Building.

## Botany and Forest Science

19 March, 7:30 p.m. Sherwin Carlquist, Plant Anatomist, Rancho Santa Ana Botanic Garden, and Professor of Botany, Claremont Graduate School and Pomona College, Claremont, California, "Evolutionary Tendencies in the Flora of Western Australia." M-149 Biological Sciences Centre.  
20 March, 3 p.m. Dr. Carlquist, "Conductive Safety: New Vistas in Wood Evolution." M-137 Biological Sciences Centre.

## The Arts

### SUB Theatre

5 to 7 March, 8 p.m. The U of A Mixed Chorus Annual Concert. 432-7803. 437-7161.  
8 March, 8 p.m. "Running Scared."  
13 and 14 March. Edmonton Dance and Affiliated Artists Society and (U of A) Orchesis present "Dance Extravaganza '87." 424-0353.  
15 March, 8 p.m. "The Name of the Rose."

### Edmonton Film Society

9 March, 8 p.m. International Series—"Gates of the Night" (Portes de la Nuit) (France, 1946). TL-11 Tory Lecture Theatre.

## Broadcasts

### Radio

#### CKUA

7 March, 7 p.m. Music at the University of Alberta presents "Music Before Bach." Guest: Mitchell Brauner.

14 March, 7 p.m. Music at the University of Alberta presents "Twentieth-Century Song." Guest: Elsie Hepburn.

#### CJSR-FM

Eclectic programming, including folk, jazz, new music, rock and U of A news and sports coverage. See *Airtight* magazine for full programming details. Send public service announcements to 224 SUB, 432-5244.

## Positions

*The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

## Academic

### Tenure-Track Teaching Position, Early Childhood Education, Department of Elementary Education

Applications are invited for an Early Childhood Education position in the Department of Elementary Education at the assistant professor level (salary floor \$31,612 per annum, under review).

Date of appointment (budget permitting): 1 July 1987.

Duties will include undergraduate and graduate teaching in curriculum and instruction courses in early childhood education, involvement in courses with a focus on general teaching skills, practicum supervision and graduate thesis supervision. A strong commitment to research is necessary. Expertise in another area of elementary school instruction will be an asset. Doctorate (or near completion) and teacher certification required. In addition, the candidate should have teaching experience relevant to early childhood education.

Closing date: 30 April 1987.

Applications, including a current *curriculum vitae* and names of referees, should be sent to Dr. Warren D. Wilde, Chairman, Department of Elementary Education, University of Alberta, Edmonton, Alberta, T5G 2G5, Canada.

### Tenure-Track Teaching Position, Mathematics Education, Department of Elementary Education

Applications are invited for a Mathematics Education position in the Department of Elementary Education at the assistant professor level (salary floor \$31,612 per annum, under review).

Date of appointment (budget permitting): 1 July 1987.

Duties will include undergraduate and graduate teaching in mathematics education, involvement in courses concerned with general teaching skills, practicum supervision and graduate thesis supervision. A strong commitment to research is necessary. Doctorate (or near completion) and teacher certification required.

Closing date: 30 April 1987.

Applications, including a current *curriculum vitae* and names of referees, should be sent to Dr. Warren D. Wilde, Chairman, Department of Elementary Education, University of Alberta, Edmonton, Alberta, T5G 2G5, Canada.

### Music Education Position, Department of Secondary Education

Applications are invited for a Music Education position in the Department of Secondary Education at the assistant professor level (salary floor \$31,612 per annum, under review).

Date of appointment (budget permitting): 1 July 1987.

Duties will include undergraduate and graduate teaching in curriculum and instruction courses in music education, development of general teaching skills through supervision of field experience and related course work and graduate student supervision. While the successful candidate will be involved primarily with the preparation of teachers for secondary schools, ability to teach instrumental music at all levels is necessary as work with preparing teachers for elementary schools may be required. In addition, jazz/stage band experience would be an asset. Doctorate (or near completion) and teacher certification required.

Closing date: 30 April 1987.

Applications, including a current *curriculum vitae* and names of referees, should be sent to Dr. Ken G. Jacknicke, Chairman, Department of Secondary Education, University of Alberta, Edmonton, Alberta, T6G 2G5, Canada.

### Postdoctoral Fellow, Developmental Disabilities Centre

The Centre has an opening for a Postdoctoral Fellow or Research Associate effective 1 August 1987.

Qualifications: PhD in Psychology or

Educational Psychology. Strong research interest in intelligence and cognitive processes of normal, learning disabled and mentally retarded children.

*Job description:* The PDF/RA is expected to develop research grant proposals, initiate research projects and participate in on-going projects. The current project in which participation is required is on memory and attention in developmentally disabled children. He/she will also assist in administration of research grants and projects of the Centre. The appointment will be initially for a two-year period.

Salary: \$24,000 per annum plus some University benefits.

The Centre is a research unit of the University of Alberta. The Centre's staff currently includes the director (J.P. Das), five research associates at the postdoctoral level (full- and part-time), research assistants and students, and an associate professor of Educational Psychology who is organizing a clinical program for the Centre.

Current research projects are: (1) Low and high IQ learning disabled children: A study of their attentional and memory components; (2) Standardization of a battery of cognitive processing tasks; (3) Development of a model of reading comprehension; (4) Assessment and remediation of hyperactivity; and (5) Attentional deficit and mild mental retardation.

*Send application to:* Dr. J.P. Das, Developmental Disabilities Centre, University of Alberta, Edmonton, Alberta T6G 2E5. Enclose a copy of a *curriculum vitae*, a statement of research and career goals, and the names of three referees.

### Sessional Librarian, Department of Music

The Department of Music invites applications for the position of Sessional Librarian. The appointment will commence on 15 August 1987 (or earlier, subject to availability of funds) and terminate on 30 April 1988. Reporting to the Chairman, Department of Music, the incumbent is responsible for the administration of the Music Resources Centre, and for collection development and reference service in music. Duties include the supervision of two full-time support staff and about 1.5 FTE of part-time temporary support staff.

The successful candidate will have a degree in Library Science and a degree in Music. Preference will be given to candidates who have experience in library work, especially if this is music-related.

The position will be filled at the Librarian I level, with salary based on an annual rate of \$25,792. Candidates should send a *curriculum vitae*, transcripts of academic record, and the names of three references to: Dr. Alfred Fisher, Chairman, Department of Music, 3-82 Fine Arts Building, University of Alberta, Edmonton, Alberta T6G 2C9. Applications will be accepted until the position is filled.

## Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 27 February 1987. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Departmental/Executive Secretary, Office of the Vice-President (Academic), \$1,716-\$2,208

Animal Technician I, Health Sciences Laboratory, \$1,580-\$2,027  
 Technician I (Trust/term), Foods and Nutrition, \$1,580-\$2,027  
 Technician II (Split funded), Oral Biology, \$1,791-\$2,304  
 Biology Technologist I (Trust), Genetics, \$1,945-\$2,510  
 Technologist I (Trust), Pathology, \$1,945-\$2,510  
 Programmer Analyst III, Computing Science, \$2,741-\$3,579

## Advertisements

### Accommodations available

Rent - Toronto house. September 1987-June 1988. Three bedrooms, study, 2 1/2 baths, recreation room. Close to public transit, schools. \$1,600/month and utilities. Call McDougall, 432-5420 or 439-9988 (evenings, weekends).  
 For sale - Windsor Park bungalow, 11731 91 Ave. Call Doug McKim, Royal LePage, 435-4983, for particulars.  
 Sale - Twenty acres in northeast Edmonton. Phone 1-878-3782 evenings.  
 Sale - Windsor Park. Two new listings. Bungalow on lovely treed lot and two-storey, four-bedroom home. Both have hardwood floors, double garages. Pat von Borstel, 437-6540, 436-5250. Spencer Real Estate.  
 Sale - Grandview. Attractive, four-bedroom, two-storey, considerably upgraded, two fireplaces, three furnaces, finished basement. Now listed at \$149,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.  
 Rent - Fully furnished, one-bedroom apartment. Next to University. April-June/early July 1987. \$457. Phone 439-0973 evenings.  
 Rent - Riverbend. New 2,800 sq. ft. home. Ten minutes from campus. Four bedrooms. Partially furnished. One year from 1 August. \$1,500/month. 430-6196.  
 Rent - Two-bedroom condominium near University. 1 1/2 baths, six appliances, parking, plug-in, water and gas included. Unfurnished, \$500/month. Furnished, \$600/month. Available 1 April. Phone 439-5879.  
 Rent - Two-bedroom condominium. 178 St. 79 Ave. \$495/month. 1 March. Western Relocation, 438-1044.  
 Rent - Devon, Alberta. Cozy, three-bedroom house. Fenced yard. \$495/month. Western Relocation, 438-1044.  
 Rent - Glenora. Gracious, 2 1/2-storey, 3,000'. Outdoor pool, tastefully restored throughout. \$2,500/month. 1 April possession. Western Relocation, 438-1044.  
 Rent - Riverbend. Immaculate, furnished, split-level home. One-year

lease, 1 July possession. \$1,300/month. Western Relocation, 438-1044.  
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 Sale - University condominiums. Sensational, multi-level styling with vaulted ceilings, skylights. Fireplace, underground parking. Asking \$77,900 to \$86,900. Phone Joy E. Murray, NRS Realty Centre, 438-6111.  
 Sale - Riverbend condominium. Immaculate. Master bedroom has 2-piece bath. Huge balcony. Ample storage areas. Includes appliances. Excellent value at \$54,900. Joy E. Murray, NRS Realty Centre Ltd. 438-6111.  
 Sale - Charming, near U of A. Tired of apartment living? Classy little home. This reconditioned 2-bedroom white shingled bungalow has extras! Brick fireplace, beamed ceilings, \$65,000. 434-2303 after 6:00 p.m.  
 Sale - Spacious and bright Greenfields bungalow, offers floor to ceiling windows, patio doors off kitchen, fireplace, bath off master, south backyard. Andrea Hammond, 435-5640, Royal LePage, 436-5080.  
 Sale - Immaculate, 3-bedroom townhouse features fireplace, 3 appliances, extra storage, tasteful basement development. Good Blue Quill location. Asking \$57,000. Andrea Hammond, 435-5640, Royal LePage, 436-5080.

### Accommodations wanted

Reliable, mature graduate student and partner will care tenderly for house, pets, garden. Wanted May-June. Preferably one year. References upon request. 433-8032.  
 Very responsible married professional couple willing to "house-sit" your home for 1-2 years. 453-2698.  
 Nice British family needs furnished home while on exchange for five months starting mid-April. Exact dates negotiable. 433-1833.  
 Reliable, non-smoking, University employee, willing to house-sit, pets, plants. References. Vanessa, 432-2325, 469-0874.  
 Will house-sit commencing April. Previous experience, references. 434-0159, 432-6216.

### Goods for sale

Cash paid for appliances. 432-0272. Typewriters to buy or rent by the hour/day/week. Open every day, weekday evenings. Mark 9, HUB Mall. 432-7936.

### Services

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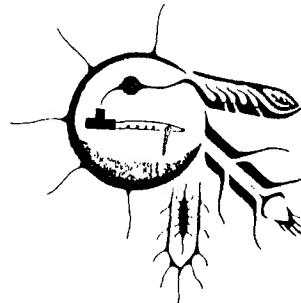
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## NATIVE STUDENTS CLUB FORUMS

"Native Economic Development"  
 March 4, 1 p.m. — Newman Centre

"Native Education In Alberta"  
 March 5, 1 p.m. — Kiva Room

"Preview: First Ministers' Conference '87"  
 March 6, 9 a.m. — SUB Theatre

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